AMENDMENT TO THE CLAIMS

Please rewrite the claims as follows:

Claims 1-16 (Canceled)

17. (Previously Presented)   An Image sensing device comprising;

an image sensing element having a two-dimensional matrix of pixels arranged in horizontal and vertical directions;

a memory arranged to store plural sets of horizontal linear correction data commonly used for correcting at least two of the matrix of pixels and/or plural sets of vertical linear correction data commonly used for correcting at least two of the matrix of pixels;

a selector arranged to select linear correction data from the plural sets of linear correction data stored in the memory in accordance with a position of a pixel of interest among the matrix of pixels; and

a calculator arranged to correct an image sensed by the image sensing element by using selected linear correction data.

18. (Previously Presented)   The device according to claim 17, wherein the image sensing element includes a color filter, and linear correction data to be selected by the selector are different from each other depending on whether a pixel of interest is in an odd line or in an even line.

19. (Previously Presented)   The device according to claim 17, wherein the

selector is further arranged to select linear correction data tram the plural sets of

linear correction data in accordance with one at focal distance, field angle, and

diaphragm of a photographing optical system or a combination thereof.

20. (Previously Presented)   An image processing apparatus for processing an

image sensed by an image sensing element having a two-dimensional matrix of

pixels arranged in horizontal and vertical directions, the apparatus comprising:

a memory arranged to store plural sets of horizontal linear correction data

commonly used for correcting at least two of the matrix of pixels and/or plural

sets of vertical linear correction data commonly used for correcting at least two of

the matrix of pixels;

a selector arranged to select linear correction data from the plural sets of

linear correcting data stored in the memory in accordance with a position of a

pixel of interest among the matrix of pixels; and

a calculator arranged to correct an image sensed by the image sensing

element by using selected linear correction data.

21. (Previously Presented)   An image processing method for processing an

image sensed by an image sensing element having a two-dimensional matrix of

pixels arranged In horizontal and vertical directions, the method comprising:

storing in a memory plural sets of horizontal linear correction data

commonly used for correcting at least two of the matrix of pixels and/or plural

sets of vertical linear correction data commonly used for correcting at least two of

the matrix of pixels; and

correcting an image sensed by the image sensing element by using linear

correction data selected from the plural sets of linear correction data stored in the

memory.

22. (Previously Presented)   A memory medium storing an image processing

program for processing an image sensed by an image sensing element having a

two-dimensional matrix of pixels arranged in horizontal and vertical directions,

the program comprising:

storing in a memory plural sets horizontal linear correction data commonly

used for correcting at least two of the matrix of pixels and/or plural sets of vertical

linear correction data commonly used for correcting at least two of the matrix of

pixels; and

correcting an image sensed by the image sensing element by using linear

correction data selected from the plural sets of linear correction data stored in the

memory.